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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-------------------------|-----------------|----------------------|---------------------|------------------|
| 09/616,842 | 07/14/2000 | Arthur Lin | 112025-0067C1 | 9127 |
| 24267 | 7590 01/11/2006 | | EXAMINER | |
| CESARI AN | ND MCKENNA, LLP | NGUYEN, TOAN D | | |
| 88 BLACK F BOSTON, M | ALCON AVENUE | | ART UNIT | PAPER NUMBER |
| 200101., 1. | | | 2665 | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | | | | |
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| | 09/616,842 | LIN ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Toan D. Nguyen | 2665 | | | | |
| The MAILING DATE of this communication ap Period for Reply | pears on the cover sheet with the c | correspondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a precified provided by the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | 136(a). In no event, however, may a reply be tin ply within the statutory minimum of thirty (30) day I will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE | nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| 1)⊠ Responsive to communication(s) filed on 13 (| October 2005. | | | | | |
| ·_ · | | | | | | |
| ** | , | | | | | |
| Disposition of Claims | | | | | | |
| 4) Claim(s) 30-59 is/are pending in the application 4a) Of the above claim(s) is/are withdrays 5) Claim(s) 30-44 is/are allowed. 6) Claim(s) 45-59 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ | awn from consideration. | | | | | |
| Application Papers | | | | | | |
| 9)☐ The specification is objected to by the Examin | er. | | | | | |
| 10)⊠ The drawing(s) filed on <u>30 June 2004</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner. | | | | | | |
| Applicant may not request that any objection to the | e drawing(s) be held in abeyance. See | e 37 CFR 1.85(a). | | | | |
| Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E | | • | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list | nts have been received. Its have been received in Applicationity documents have been received in Applicationity documents have been received in the contract of the contract o | on No ed in this National Stage | | | | |
| Attachment(s) | " □ | (DT- 110) | | | | |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4) 🔲 Interview Summary Paper No(s)/Mail Da | | | | | |
| 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date | | atent Application (PTO-152) | | | | |

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DETAILED ACTION

Drawings

1. The drawings are objected to because figure 4 shows the same label "RETAIN PACKETS" at references 415 and 416. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

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3. Claims 45-49 are rejected under 35 U.S.C. 101 because it is not a true apparatus and it is unclear from the specification. Claim 45 recites all software limitations.

4. Claims 55-59 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. In claim 55, electromagnetic signal propagating is a signal and it is not tangible.

Claim Rejections - 35 USC § 112

5. Claims 50-54 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 50 lines 5 and 7, it is unclear as to what is meant by "Y". Therefore, the scope of the claim is unascertainable.

Allowable Subject Matter

- 6. Claims 30-44 are allowed.
- 7. The following is an examiner's statement of reasons for allowance:

Regarding claim 30, the prior art fails to teach a combination of the step of:

a classifier for assigning packets received by the input ports to X*Y classes of service, where * represents multiplication, and mapping the XY classes of service to the X classes of service that are supported by the router, the classifier assigning to the packet one of Y associated levels of priority, wherein each level of priority is associated with a different probability of packet loss, in the specific combination as recited in the claim.

Regarding claim 37, the prior art fails to teach a combination of the step of:

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D. a buffer subsystem for retaining the packets in class of service per output port queues based on probabilities of discard associated with X*Y classes of service, where Y represents a number and * represents multiplication, in the specific combination as recited in the claim.

8. Claims 50-54 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Response to Arguments

9. Applicant's arguments filed 10/13/05 have been fully considered but they are not persuasive.

The applicant argues that each element of claims 45-49 recite a "means or step for performing a specified function", and therefore are not required reciting structure. The examiner disagrees. Claims 45-49 are rejected under 35 U.S.C. 101 because the claimed invention recites all software limitations. It is not a true apparatus and it is unclear from the specification.

Claims 55-59 are rejected under 35 U.S.C. because the claim invention is directed to electromagnetic signal propagating on a computer network. Electromagnetic signal propagating is a signal, and it is not tangible which is non-statutory subject matter.

Furthermore, claim 50-54 are rejected under 35 U.S.C. 112, second paragraph because the examiner do not understand what is the relationship between X and Y as recited in the claimed.

Conclusion

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10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan D. Nguyen whose telephone number is 571-272-3153. The examiner can normally be reached on M-F (7:00AM-4:30PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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> MAN U. PHAN PRIMARY EXAMINER